

**Claims**

1. A process for the introduction of inorganic solids into hot liquid melts, characterized in that inorganic solids are added to a hydrocarbon-containing plastic and the resulting mixture is introduced into the hot liquid melts.
2. A process according to Claim 1, characterized in that 90% of the inorganic solid particles have sizes of 0.01  $\mu\text{m}$  to 5 mm.
3. A process according to Claim 2, characterized in that 90% of the inorganic solid particles have sizes of 0.1  $\mu\text{m}$  to 2 mm.
4. A process according to one of Claims 1 to 3, characterized in that the proportion of inorganic solids in the plastic is 0.5 to 90 wt.%.
5. A process according to Claim 4, characterized in that the proportion of inorganic solids in the plastic is 2 to 70 wt.%.
6. A process according to one of Claims 1 to 5, characterized in that the inorganic solids (= fluxes) used are titanium-containing substances and/or substances containing iron oxide, aluminium oxide, magnesium oxide, calcium oxide, silicates or slag-forming additives, individually or as a mixture.
7. A process according to Claim 6, characterized in that the flux contains synthetic titanium dioxide.
8. A process according to one of Claims 1 to 7, characterized in that the plastic contains the element nitrogen.

9. A process according to one of Claims 1 to 8,  
characterized in that the plastic used is old plastic.
10. A process according to one of Claims 1 to 9,  
characterized in that the plastic is mixed in solid form  
5 with the inorganic solids.
11. A process according to one of Claims 1 to 9,  
characterized in that the plastic is mixed in liquid  
(molten) form with the inorganic solids (fluxes).
12. A process according to Claim 11, characterized in that  
10 the mixture of molten plastic and inorganic solids is  
cooled so that it solidifies.
13. A process according to Claim 12, characterized in that  
the solidified plastic/flux mixture is ground or  
shredded.
- 15 14. A process according to one of Claims 1 to 13,  
characterized in that the plastic/flux mixture is  
introduced into the hot liquid melts by injection.
15. A process according to one of Claims 1 to 13,  
characterized in that the plastic/flux mixture is  
20 introduced into the hot liquid melts in the form of  
lumps (e.g. as shaped bodies).